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TITLE: X-RAY DIAGNOSTIC APPARATUS
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INVENTOR-INFORMATION:
NAME
IINUMA, KAZUHIRO

ASSIGNEE-INFORMATION:
NAME TOSHIBA CORP COUNTRY
N/A

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ABSTRACT:

PURPOSE: To realize drawing of coronary artery by starting radiation of x-ray after the specified time from the QRS timing of an electrocardiogram signal detected by an R wave detecting apparatus and by stopping radiation of X-ray at the timing of front edge of the next QRS wave.

CONSTITUTION: The R wave timing pulse obtained by an R wave detecting apparatus 8 is input to a timing control apparatus 9 and becomes a pulse train of Fig. c. A radiation control signal is generated from this pulse train and a

picture -taking command signal obtained by operation of the radiation start switch 10 from an external circuit. This control signal controls an X-ray controller 3 and thereby the X-ray is radiated during the time range X shown in Fig. e. Namely, radiation of X-ray is started in the vicinity of initial expansion of the heart and is stopped at the initial timing (R wave detection timing) of contraction. This cycle is repeated for each pulse, and after the predetermined time (or number of pulses), repeated radiation of X-ray is stopped when the X-ray picture taking command signal disappears.

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